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GENERAL STRUCTURAL NOTES:
1. BUILDING CODE: BUILDING CODE OF NORTH CAROLINA STATE, LATEST EDITION
2. CONSTRUCTION LOADING: DURING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL LIMIT AND CONTROL CONSTRUCTION LOADING, INCLUDING BUT NOT LIMITED TO:
a. MATERIAL STOCKPILING AND EQUIPMENT TO PRECLUDE OVERSTRESSING, CONSTRUCTION LIVE LOAD IN EXCESS OF 20 PSF, OR DAMAGE TO ANY STRUCTURAL ELEMENT.
3. COORDINATION WITH OTHER DISCIPLINES: THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
4. EXISTING CONDITIONS: THE INFORMATION SHOWN ON THESE DOCUMENTS IS THE BEST REPRESENTATION OF EXISTING CONDITIONS AVAILABLE TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND BRING TO THE ENGINEERS AND CONSTRUCTION MANAGERS ATTENTION ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
5. EXISTING STRUCTURES: ALL EXISTING STRUCTURES ADJACENT TO NEW WORK ARE TO BE ADEQUATELY PROTECTED AND/OR SUPPORTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY NEW OR EXISTING CONSTRUCTION DAMAGED WHILE WORK IS IN PROGRESS.
6. OPENINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SIZE AND LOCATION OF ALL OPENINGS IN NEW AND EXISTING CONSTRUCTION WITH THE DISCIPLINE REQUIRING THEM.
FOUNDATION NOTES:
1b. (NO GEOTECHNICAL INFORMATION WAS AVAILABLE AT THE TIME OF DESIGN. ASSUMED ALLOWABLE BEARING PRESSURE = 1,500 PSF.)
2. TAKE ALL NECESSARY PRECAUTIONS WHEN EXCAVATING OR DRILLING ADJACENT TO EXISTING STRUCTURES TO AVOID DISTURBING EXISTING FOUNDATIONS. DO NOT EXCAVATE BELOW EXISTING FOUNDATIONS. CONTACT THE ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWING.
3. ALL EXCAVATIONS SHALL FULLY CONFORM TO LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
4. DO NOT BACKFILL AGAINST CONCRETE ELEMENTS UNTIL PLACED CONCRETE HAS REACHED 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
5. BACKFILL BOTH SIDES OF FOUNDATION WALLS IN EQUAL, ALTERNATE LIFTS IN ORDER TO AVOID IMPOSING UNBALANCED LATERAL PRESSURE ON THE WALLS.
6. ALLOW TESTING AGENCY TO INSPECT AND APPROVE ALL COMPACTED SUBGRADE AND FILL LAYERS PRIOR TO FURTHER BACKFILL AND/OR PLACEMENT OF CONCRETE. TESTING AND INSPECTION RESULTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
7. THE SUITABILITY AND STABILITY OF EXISTING SOILS AND FILL, THE DEPTHS AND LATERAL LIMITS OF UNSUITABLE MATERIAL TO BE REMOVED, AND ADEQUACY OF FOUNDATION BEARING GRADES SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.
8. BACKFILL AND FILL MATERIALS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO THE MODIFIED PROCTOR TEST (ASTM D-1557). ALL EXISTING BACKFILL SHALL BE RECOMPACTED AS SUCH.
9. EXCAVATION AND BACKFILL OPERATIONS SHALL BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND/OR BY PUMPING FROM SUMPS AS REQUIRED.
CONCRETE NOTES:
2. PROVIDE THE FOLLOWING MINIMUM CONCRETE CLEAR COVER FOR REINFORCING STEEL, UNLESS OTHERWISE NOTED:.
a. CONCRETE PLACED AGAINST EARTH: 3.0 IN.
b. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
#6 THROUGH #18 BARS: 2.0 IN.
#5 BARS AND SMALLER: 1.5 IN.
c. FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
#14 AND #18 BARS: 1.5 IN.
#11 BARS AND SMALLER: 1.0 IN.
3. ALL CONCRETE WORK, CONSTRUCTION, AND REINFORCING DETAILS SHALL CONFORM TO THE "NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION".
4. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318.
5. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
6. ALL REINFORCING SHALL BE LAPPED OR EMBEDDED IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED.
7. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING AT CORNERS OR INTERSECTIONS.
8. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
9. PRIOR TO PLACEMENT OF CONCRETE, A FIELD REPRESENTATIVE SHALL BE INFORMED A MINIMUM OF 24 HOURS IN ADVANCE OF PLACEMENT, TO ALLOW INSPECTION OF REINFORCING STEEL, AND PREPARATION FOR TAKING CONCRETE SAMPLES. INDEPENDENT TESTS ARE REQUIRED FOR ALL CONCRETE PLACEMENTS.
10. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.
11. VAPOR BARRIER: POLYETHYLENE SHEET, ASTM D 4397, NOT LESS THAN 15-MIL LOCATED BELOW INTERIOR SLABS-ON-GRADE.
12. EPOXY ADHESIVE: HLT-HY-HY 200 OR SIMPSON SET EPOXY.
13. GROUT: NON-METALLIC/NON-SHRINK STRUCTURAL GROUT. FIVE STAR GROUT OR APPROVED EQUAL.
14. SYNTHETIC MACRO-FIBER: FIBRILLATED POLYPROPYLENE MICRO-FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE, COMPLYING WITH ASTM C 1116/C 1116M, TYPE III.
15. PROTECT CONCRETE FROM PREMATURE DRYING IMMEDIATELY AFTER PLACEMENT. CURING OF CONCRETE SLABS MUST START WITHIN 2 HOURS AFTER FINISHING OPERATIONS ARE COMPLETE. SLABS-ON-GRADE SHALL BE WET CURED FOR 7 DAYS. CURING COMPOUNDS ARE PROHIBITED.
16. SLABS-ON-GRADE SHALL HAVE CONTROL JOINTS AS SHOWN ON PLANS. SAW CUT JOINTS SHALL BE MADE WITHIN 12 HOURS OF PLACING SLAB. AFTER CONCRETE IS CURED AND READY FOR PLACEMENT OF FLOOR FINISH, ALL SLABS INSIDE THE BUILDING SHALL HAVE CONTROL JOINTS FILLED WITH APPROVED JOINT FILLER.
17. CONCRETE SHALL BE CONTROLLED, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.
18. CONDUIT OR PIPES SHALL BE PLACED UNDER SLABS-ON-GRADE.
19. ALUMINUM CONDUITS OR PIPES SHALL NOT BE PLACED IN CONCRETE.
MASONRY NOTES:
2. MASONRY CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" (ACI-530).
3. ALL CONCRETE BLOCK SHALL CONFORM TO ASTM-C90. PROVIDE NORMAL WEIGHT UNITS WITH MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 2000 PSI.
4. MORTAR FOR UNIT MASONRY: COMPLY WITH ASTM C 270. PROVIDE THE FOLLOWING TYPES OF MORTAR FOR APPLICATIONS BELOW:
a. FOR REINFORCED MASONRY, USE TYPE M.
b. FOR MASONRY BELOW GRADE OR IN CONTACT WITH EARTH, USE TYPE M.
c. FOR INTERIOR NONLOAD-BEARING PARTITIONS, USE TYPE N.
5. PLACE GROUT IN ALL REINFORCED CELLS. GROUT SHALL BE PLACED USING LOW-LIFT GROUTING NOT TO EXCEED 5' - 0".
6. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING BARS MARKED "CONTINUOUS" SHALL BE LAPPED PER ACI 530. CONSTRUCT LAP SPLICES AND EMBEDMENT LENGTHS PER ACI 530. MAINTAIN A MINIMUM OF 1/2" CLEARANCE BETWEEN REINFORCING BARS AND MASONRY. PROVIDE #5 BARS UNLESS OTHERWISE NOTED.
7. JOINT REINFORCEMENT FACTORY FABRICATED FROM COLD-DRAWN STEEL WIRE, ASTM A 82. LADDER DESIGN, WITH 9 GAGE DEFORMED STEEL WIRE LONGITUDINAL RODS WELDED TO 9 GAGE STEEL WIRE CROSS TIES SPACED 16 INCHES ON CENTER MAXIMUM; WIDTH 1-1/2 TO 2 INCHES LESS THAN TOTAL WALL THICKNESS. FURNISH FACTORY FABRICATED CORNER AND TEE SECTIONS FOR CORNERS AND WALL INTERSECTIONS.
8. DESIGN AND PROVIDE TEMPORARY BRACING OF MASONRY WALLS DURING CONSTRUCTION. BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT SUPPORTING ELEMENTS OF THE STRUCTURE HAVE BEEN CONSTRUCTED. BRACING SHALL FULLY CONFORM TO ALL OSHA REQUIREMENTS.
9. GALVANIZED ADJUSTABLE WIRE TIES SHALL BE FURNISHED AND INSTALLED AT 16 INCHES ON CENTER MAXIMUM, EACH WAY, FOR ALL CAVITY WALLS AND AS INDICATED. MASONRY TIES SHALL BE FURNISHED AND INSTALLED TO STEEL FRAMING TO SUPPORT ALL MASONRY CONSTRUCTION, TIES TO BE AT 16 INCHES ON CENTER MAXIMUM. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
10. GROUT ALL CELLS OF MASONRY UNITS FOR THE FIRST TWO COURSES ABOVE ALL FOUNDATION WALLS AND SLABS.
11. PROVIDE CORNER BARS WHERE HORIZONTAL REINFORCING MEETS AT A CORNER OR INTERSECTION.
12. PROVIDE REINFORCING BARS AROUND ALL MASONRY OPENINGS. SEE TYPICAL MASONRY DETAILS.
13. ALL MASONRY COURSING SHOWN IN SECTION AND ELEVATION IS SCHEMATIC. MASONRY MAY NEED TO BE CUT AS REQUIRED.
14. CONDUITS, PIPES, AND SLEEVES IN MASONRY SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER. ALUMINUM SHALL NOT BE USED.

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WOOD FRAMING NOTES:
1. WOOD CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FOREST PRODUCTS ASSOCIATION'S (NFPA) NATIONAL DESIGN SPECIFICATIONS (NDS) AND CHAPTER 23 OF THE BUILDING CODE OF NYS, LATEST EDITION.
2. MINIMUM DESIGN VALUES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
3. WOOD IN CONTACT WITH MASONRY, CONCRETE OR EARTH, OR WITHIN 1'-0" OF GRADE OR EXPOSED TO THE EXTERIOR SHALL BE PRESSURE PRESERVATIVE TREATED.
4. FRAMING ANCHORS AND MISCELLANEOUS METAL DEVICES FOR ALL FRAMING SHALL BE GALVANIZED STEEL OF AT LEAST 16 GAGE THICKNESS (90 FOR INTERIOR APPLICATION, G185 OR STAINLESS STEEL FOR EXTERIOR). INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. USE FASTENERS AND FASTENING METHODS RECOMMENDED BY THE MANUFACTURER. EXTERIOR EXPOSED ANCHORS AND ANCHORS IN CONTACT WITH PRESSURE TREATED WOOD TO BE STAINLESS OR GALVANIZED (G185).
5. BUILT-UP FRAMING MEMBERS SHALL BE FASTENED IN ACCORDANCE WITH NDS STANDARDS UNLESS OTHERWISE NOTED.
6. NOTCHES, COPEs, AND HOLES IN WOOD MEMBERS ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED. NOTCHES, COPEs, AND HOLES IN PRE-ENGINEERED MEMBERS SHALL BE IN ACCORDANCE AND APPROVED BY THE MANUFACTURER.
7. ROOF TRUSSES, INCLUDING DESIGN, FRAMING CONNECTORS, BRACING ERECTION AND QUALITY SHALL CONFORM TO THE SPECIFICATIONS AND RECOMMENDATIONS OF NFPA AND THE TRUSS PLATE INSTITUTE (TPI).
8. SHEATHING SHALL BE RATED AS FOLLOWS (CHECK THAT IT MEETS DESIGN LOADS)
a. WALL: APA RATED 24" O.C. EXPOSURE I (7/16" MIN. THICKNESS)
b. FLOOR: APA RATED 24/16, EXPOSURE I (3/4" MIN. THICKNESS)
c. ROOF: APA RATED 48/24, EXPOSURE I (5/8" MIN. THICKNESS)
9. SHEATHING SHALL BE CONTINUOUS OVER TWO OR MORE SUPPORTS. FLOOR AND ROOF SHEATHING SHALL BE ORIENTED WITH THE TRUSS AXIS PERPENDICULAR TO THE SUPPORTS. WALL SHEATHING CAN BE ORIENTED PERPENDICULAR OR PARALLEL
10. WALL SHEATHING SHALL HAVE 2X BLOCKING OR FRAMING MEMBERS BEHIND ALL PANEL EDGES.
11. UNLESS NOTED OTHERWISE, THE MINIMUM FASTENING FOR SHEATHING SHALL BE AS FOLLOWS:
a. WALL: 8d COMMON NAILS @ 6" O.C. (EDGE) & 12" O.C. (FIELD)
b. FLOOR: GLUED AND 10d COMMON NAILS @ 6" O.C. (PANEL EDGES) AND 12" O.C. (FIELD)
c. ROOF: 10d COMMON NAILS@ 6" O.C. (PANEL EDGES) AND 12" O.C. (FIELD)
d. GWB: #6 - 1 1/4" SCREWS AT 8" (EDGE) AND 12" (FIELD).
12. WOOD CONNECTORS: SIMPSON STRONG-TIE CONNECTORS USED AS BASIS OF DESIGN. USP STRUCTURAL CONNECTORS OF EQUAL STRENGTH ARE ACCEPTABLE.
13. BOLTS THROUGH WOOD MEMBERS SHALL BE ASTM A307.
GENERAL DEMOLITION NOTES:
1. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
a. PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL. COMPLETE SELECTIVE DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL.
b. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERS AND CHOPPING, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS TO MAINTAIN A WATERTIGHT CONDITION UNTIL PERMANENT CONSTRUCTION IS COMPLETE.
c. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES. AVOID MARRING EXISTING FINISHED SURFACES.
d. NO FLAME CUTTING.
e. REMOVE DECAYED, VERMIN-INFESTED, OR OTHERWISE DANGEROUS OR UNSUITABLE NON-HAZARDOUS MATERIALS. PROMPTLY DISPOSE OF OFF-SITE.
f. ASBESTOS CONTAINING MATERIAL (ACM) / HAZARDOUS MATERIALS:
..... 1. NO ACM SURVEY HAS BEEN PERFORMED FOR THIS PROJECT
g. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER TO GROUND BY METHOD SUITABLE TO AVOID FREE FALL AND TO PREVENT GROUND IMPACT OR DUST GENERATION.
h. LOCATE SELECTIVE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
i. DISPOSE OF DEBRIS OFF-SITE PROMPTLY AT CONTRACTOR'S EXPENSE AND IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND CODES.
2. BUILDING ELEMENTS TO REMAIN: DO NOT DEMOLISH BUILDING ELEMENTS BEYOND LIMITS INDICATED.
3. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION(AND CLEANED) AND REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE. COMPLY WITH INSTALLATION REQUIREMENTS FOR NEW MATERIALS AND EQUIPMENT. PROVIDE CONNECTIONS, SUPPORTS, AND MISCELLANEOUS MATERIALS NECESSARY TO MAKE ITEM FUNCTIONAL FOR USE INDICATED.
4. SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS:
a. REINFORCED CONCRETE: DEMOLISH IN SMALL SECTIONS. SAW CUT CONCRETE TO A DEPTH OF AT LEAST 3/4 INCH AT JUNCTURES WITH CONSTRUCTION TO REMAIN. DISLodge CONCRETE FROM REINFORCEMENT AT PERIMETER OF AREAS BEING DEMOLISHED, CUT REINFORCEMENT, AND THEN REMOVE REMAINDER OF CONCRETE INDICATED FOR SELECTIVE DEMOLITION USING MAXIMUM 15-LB CHIPPING HAMMER. NEATLY TRIM OPENINGS TO DIMENSIONS INDICATED.
b. CONCRETE SLABS-ON-GRADE: SAW-CUT PERIMETER OF AREA TO BE DEMOLISHED, THEN BREAK UP AND REMOVE.
c. WOOD: SAWCUT CLEANLY, LEVEL, PLUMB, AND SQUARE TO DIMENSIONS REQUIRED FOR RECONSTRUCTION. DISPOSAL OF DEMOLISHED MATERIALS
d. GENERAL: EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RECYCLED, REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL.
5. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
6. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
7. REMOVE DEBRIS FROM ELEVATED PORTIONS OF BUILDING BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL IN A CONTROLLED DESCENT.
8. BURNING: DO NOT BURN DEMOLISHED MATERIALS.
8a. COMPLY WITH REQUIREMENTS SPECIFIED IN DIVISION 01 SECTION "CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL."
9. DISPOSAL: TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.
10. CLEANING: CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY ALL DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE DEMOLITION OPERATIONS BEGAN.

STRUCTURAL DESIGN TABLE - IBC 2015 (IN ACCORDANCE WITH APPLICABLE BUILDING CODE)					
BUILDING DATA:		LOCATION		195 SPRINGBROOK AVE, CLAYTON, NC 27520	
BUILDING OCCUPANCY RISK CATEGORY		APPLICABLE BUILDING CODE		NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION	
FLOOR LIVE LOAD:		LOBBY		100 PSF	
		CORRIDORS (FIRST FLOOR)		100 PSF	
		OFFICES		40 PSF	
		MECHANICAL		150 PSF	
ROOF LIVE LOAD:		ROOF		20 PSF	
SNOW LOAD:		SNOW LOAD IMPORTANCE FACTOR		1.0	
		GROUND SNOW LOAD		15 PSF	
		SNOW EXPOSURE FACTOR		1.0	
		THERMAL FACTOR		1.0	
		DRIFTING SNOW		AS REQ. PER ASCE 7-10	
WIND LOAD (MAIN WIND-FORCE RESISTING SYSTEM):		ANALYSIS PROCEDURE		DIRECTIONAL PROCEDURE	
		ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)		Vult 122 mph	
		WIND DIRECTIONALITY FACTOR		Kd 0.85	
		EXPOSURE CATEGORY		C	
		TOPOGRAPHIC FACTOR		Kzt 1.00	
		GUST-EFFECT FACTOR		G 0.85	
		ENCLOSURE CLASSIFICATION		ENCLOSED	
		INTERNAL PRESSURE COEFFICIENT		GCp1 +0.18/-0.18	
		VELOCITY PRESSURE		q 16 PSF	
		MINIMUM WALL WIND PRESSURE		Pmin 16 PSF	
		MINIMUM ROOF WIND PRESSURE		Pmin 8 PSF	
		NOTES		WIND LOADS ARE CALCULATED FROM THESE PARAMETERS FOR EACH SURFACE OF THE MAIN WIND-FORCE RESISTING SYSTEM.	
WIND LOAD (COMPONENTS & CLADDING):		BASIC WIND SPEED (3-SECOND GUST)		V 122 mph	
		EXPOSURE CATEGORY		C	
		TOPOGRAPHIC FACTOR		Kzt 1.00	
		ENCLOSURE CLASSIFICATION		ENCLOSED	
		EFFECTIVE WIND AREA		Aeff 10 SQFT	
		MINIMUM DESIGN WIND PRESSURE		Pmin +/- 16 PSF	
		NOTES		1. EFFECTIVE AREA ABOVE USED AS BASIS FOR "WORST CASE" PRESSURE CALCULATIONS. THE EFFECTIVE AREA FOR EACH INDIVIDUAL COMPONENT SHALL BE CALCULATED AND PRESSURE VALUES ADJUSTED ACCORDINGLY. 2. INCREASED WIND PRESSURES AT EDGES, OVERHANGS, AND OTHER SURFACES ARE AS DERIVED IN ASCE 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".	
EARTHQUAKE LOAD:		SEISMIC - FORCE RESISTING SYSTEM		BEARING WALL SYSTEM W/ LIGHT FRAMED (WOOD) WALLS SHEATHED WITH SHEAR PANELS	
		SOIL SITE CLASSIFICATION		D	
		SPECTRAL RESPONSE ACCELERATION AT 0.2 SEC		Ss 0.158g	
		SPECTRAL RESPONSE ACCELERATION AT 1.0 SEC		S1 0.077g	
		SEISMIC IMPORTANCE FACTOR		Ie 1.25	
		DESIGN SPECTRAL RESPONSE COEFFICIENT		SDS 0.124g	
		DESIGN SPECTRAL RESPONSE COEFFICIENT		SD1 0.000g	
		SEISMIC DESIGN CATEGORY		B	
		ANALYSIS PROCEDURE		EQUIV. LATERAL FORCE	
		SEISMIC RESPONSE COEFFICIENT		Cs 0.0238	
		SEISMIC BASE SHEAR - AREA B		V 5.5K	
		RESPONSE MODIFICATION FACTOR		R 6.5	
		SEISMIC BASE SHEAR - AREA A		V 4K	

ROOF DECK SCHEDULE				
MARK	TYPE	FASTENER SIZE AND SPACING		COMMENTS
		AT BOUNDARIES AND PANEL EDGES	INTERMEDIATE	
RD-1	5/8" EXTERIOR GRADE PLYWOOD STRUCTURAL 1 RATED SHEATHING	100 NAILS @ 6" O.C.	100 NAILS @ 12" O.C.	PROVIDE BLOCKING AT ALL PANEL EDGES

SLAB ON-GRADE SCHEDULE				
MARK	TYPE	SLAB THICKNESS	SLAB REINFORCEMENT	COMMENTS
S.O.G. 1	SLAB-ON-GRADE	4"	FIBER REINFORCEMENT - SEE GENERAL NOTES	SEE SPECIFICATIONS & ARCH FOR FINISH

MASONRY WALL SCHEDULE				
MARK	THICKNESS	WALL REINFORCEMENT		
		HORIZONTAL	VERTICAL	BOND BEAM REINF. & SPACING
M8	7 5/8"	JOINT REINFORCEMENT - SEE SPECS	#5 BARS @ 48" O.C.	(1) #5 BAR CONT.

WOOD WALL SCHEDULE							
MARK	THICKNESS	SHEATHING GRADE	FRAMING SIZE & SPACING		BASE OF WALL CONNECTIONS		COMMENTS
			STUDS	CHORDS	TOP & BOTTOM PLATE	BOTTOM PLATE ANCHORS	
W4	3 1/2"	TYPE X	2X4 STUDS @ 16" O.C.	(2) 2X4	(2) 2X4 TOP PLATE 2X4 PT SILL PLATE	1/2" DIA. ANCHORS @ 4" - 0" O.C.	HOLDOWN ANCHORS ONLY REQUIRED AT SHEARWALLS - SEE PLAN
W6	5 1/2"	VARIES	2X6 STUDS @ 16" O.C.	(2) 2X6	(2) 2X6 TOP PLATE 2X6 PT SILL PLATE	1/2" DIA. ANCHORS @ 4" - 0" O.C.	HOLDOWN ANCHORS ONLY REQUIRED AT SHEARWALLS - SEE PLAN

WALL FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	FOOTING REINFORCEMENT	
			LONGITUDINAL	TRANSVERSE
WF2	2' - 0"	1' - 0"	(3) #4 BARS CONT.	#4 BARS @ 12" O.C.

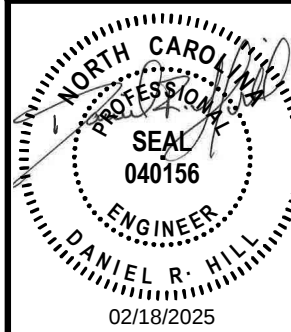
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REHABILITATION CENTER
ADDITION
195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

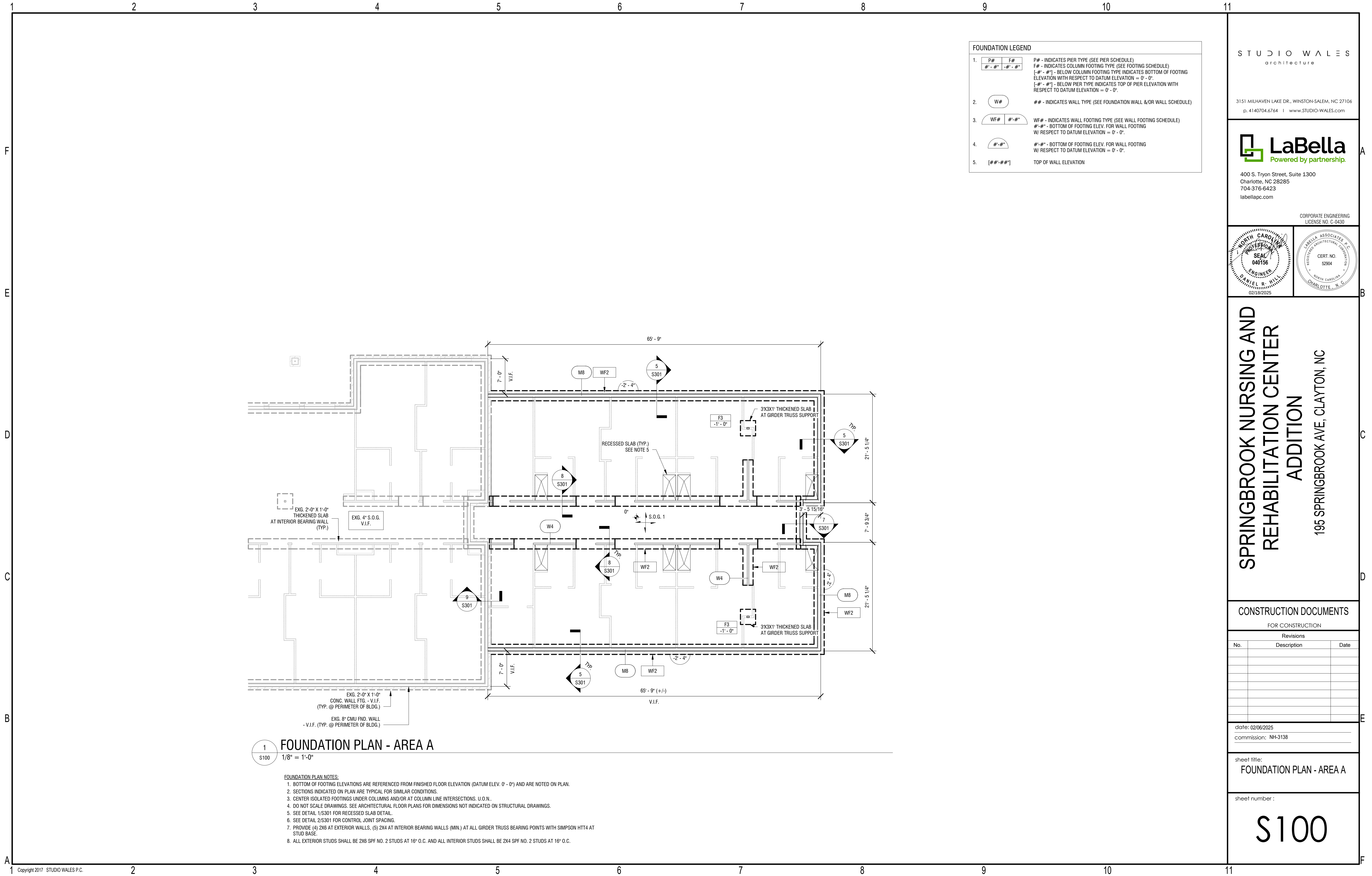
FOR CONSTRUCTION		
Revisions		
No.	Description	Date

date: 02/06/2025
commission: NH-3138

sheet title:
GENERAL NOTES

sheet number :

S001



FOUNDATION LEGEND						
1.	<table><tr><th>P#</th><th>F#</th></tr><tr><td>#'-#"</td><td>-#'-#"</td></tr></table>	P#	F#	#'-#"	-#'-#"	P# - INDICATES PIER TYPE (SEE PIER SCHEDULE) F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE) [-#'-#"] - BELOW COLUMN FOOTING TYPE INDICATES BOTTOM OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0". [-#'-#"] - BELOW PIER TYPE INDICATES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0".
P#	F#					
#'-#"	-#'-#"					
2.	<table><tr><th>W#</th></tr></table>	W#	## - INDICATES WALL TYPE (SEE FOUNDATION WALL &/OR WALL SCHEDULE)			
W#						
3.	<table><tr><th>WF#</th><th>#'-#"</th></tr></table>	WF#	#'-#"	WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE) #'-#"- BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0' - 0".		
WF#	#'-#"					
4.	<table><tr><th>#'-#"</th></tr></table>	#'-#"	#'-#"- BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0' - 0".			
#'-#"						
5.	<table><tr><th>[#'-#"]</th></tr></table>	[#'-#"]	TOP OF WALL ELEVATION			
[#'-#"]						

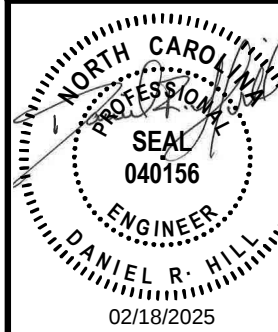
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SPRINGBROOK NURSING AND
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ADDITION
195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION

Revisions		
No.	Description	Date

date: 02/06/2025
commission: NH-3138

sheet title:
FOUNDATION PLAN - AREA A

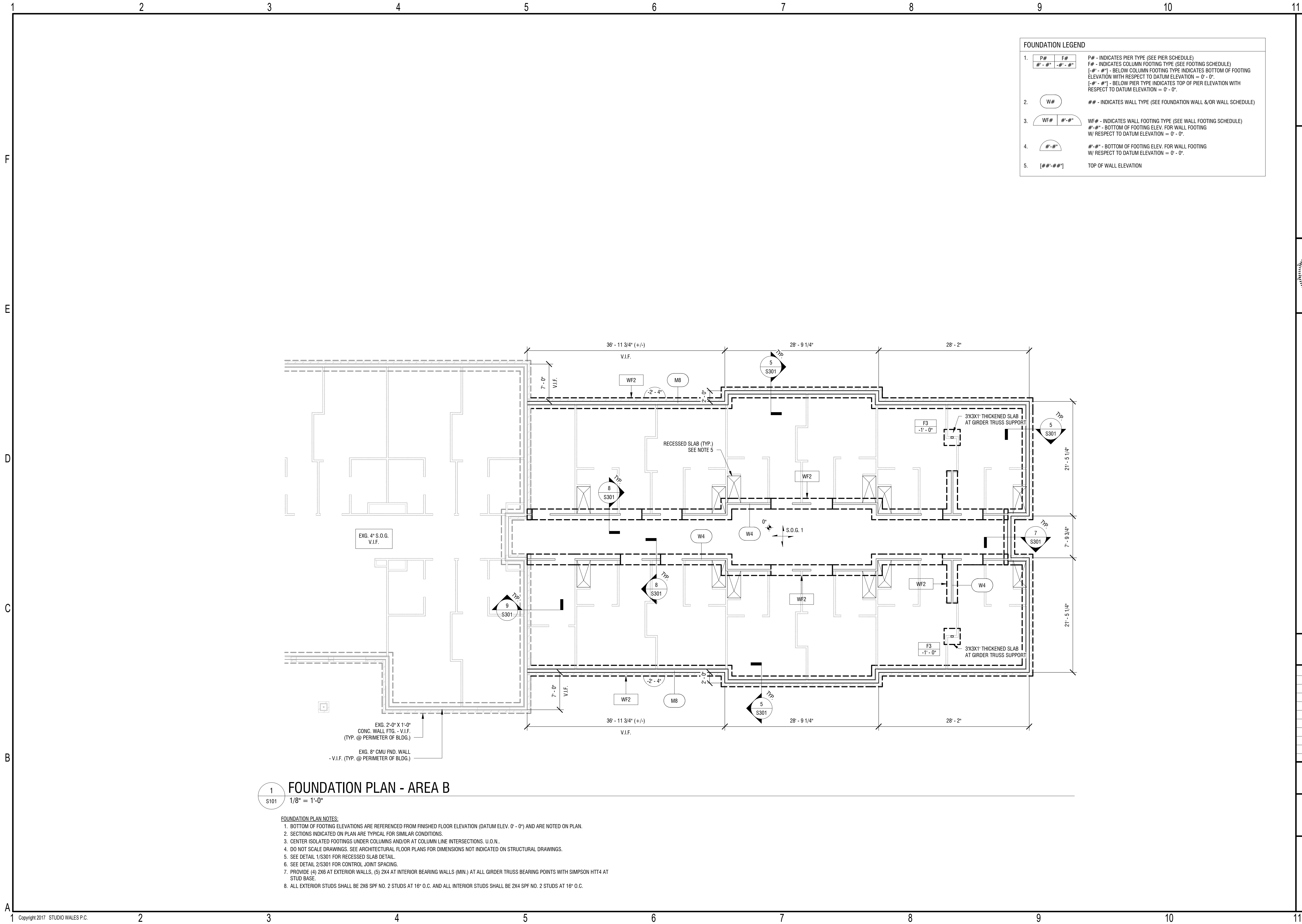
sheet number :

S100

1 FOUNDATION PLAN - AREA A

1/8" = 1'-0"

- FOUNDATION PLAN NOTES:
1. BOTTOM OF FOOTING ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION (DATUM ELEV. 0' - 0") AND ARE NOTED ON PLAN.
 2. SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
 3. CENTER ISOLATED FOOTINGS UNDER COLUMNS AND/OR AT COLUMN LINE INTERSECTIONS. U.O.N..
 4. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
 5. SEE DETAIL 1/S301 FOR RECESSED SLAB DETAIL.
 6. SEE DETAIL 2/S301 FOR CONTROL JOINT SPACING.
 7. PROVIDE (4) 2X6 AT EXTERIOR WALLS, (5) 2X4 AT INTERIOR BEARING WALLS (MIN.) AT ALL GIRDER TRUSS BEARING POINTS WITH SIMPSON HTT4 AT STUD BASE.
 8. ALL EXTERIOR STUDS SHALL BE 2X6 SPF NO. 2 STUDS AT 16" O.C. AND ALL INTERIOR STUDS SHALL BE 2X4 SPF NO. 2 STUDS AT 16" O.C.



FOUNDATION LEGEND

1.

P#

F#

#-#

-#-#

P# - INDICATES PIER TYPE (SEE PIER SCHEDULE)
F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)
[-#-#] - BELOW COLUMN FOOTING TYPE INDICATES BOTTOM OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
[-#-#] - BELOW PIER TYPE INDICATES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"

2.

W#

- INDICATES WALL TYPE (SEE FOUNDATION WALL &/OR WALL SCHEDULE)

3.

WF#

#-#

WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE)
#-# - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING
W/ RESPECT TO DATUM ELEVATION = 0' - 0"

4.

#-#

#-# - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING
W/ RESPECT TO DATUM ELEVATION = 0' - 0"

5.

[##-##]

TOP OF WALL ELEVATION

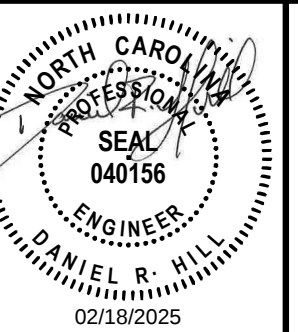
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FOUNDATION PLAN - AREA B

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S101

FOUNDATION PLAN - AREA B

1/8" = 1'-0"

- FOUNDATION PLAN NOTES:
- BOTTOM OF FOOTING ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION (DATUM ELEV. 0' - 0") AND ARE NOTED ON PLAN.
 - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
 - CENTER ISOLATED FOOTINGS UNDER COLUMNS AND/OR AT COLUMN LINE INTERSECTIONS. U.O.N..
 - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
 - SEE DETAIL 1/S301 FOR RECESSED SLAB DETAIL.
 - SEE DETAIL 2/S301 FOR CONTROL JOINT SPACING.
 - PROVIDE (4) 2X6 AT EXTERIOR WALLS, (5) 2X4 AT INTERIOR BEARING WALLS (MIN.) AT ALL GIRDER TRUSS BEARING POINTS WITH SIMPSON HTT4 AT STUD BASE.
 - ALL EXTERIOR STUDS SHALL BE 2X6 SPF NO. 2 STUDS AT 16" O.C. AND ALL INTERIOR STUDS SHALL BE 2X4 SPF NO. 2 STUDS AT 16" O.C.

1
F
E
D
C
B
A

2

3

4

5

6

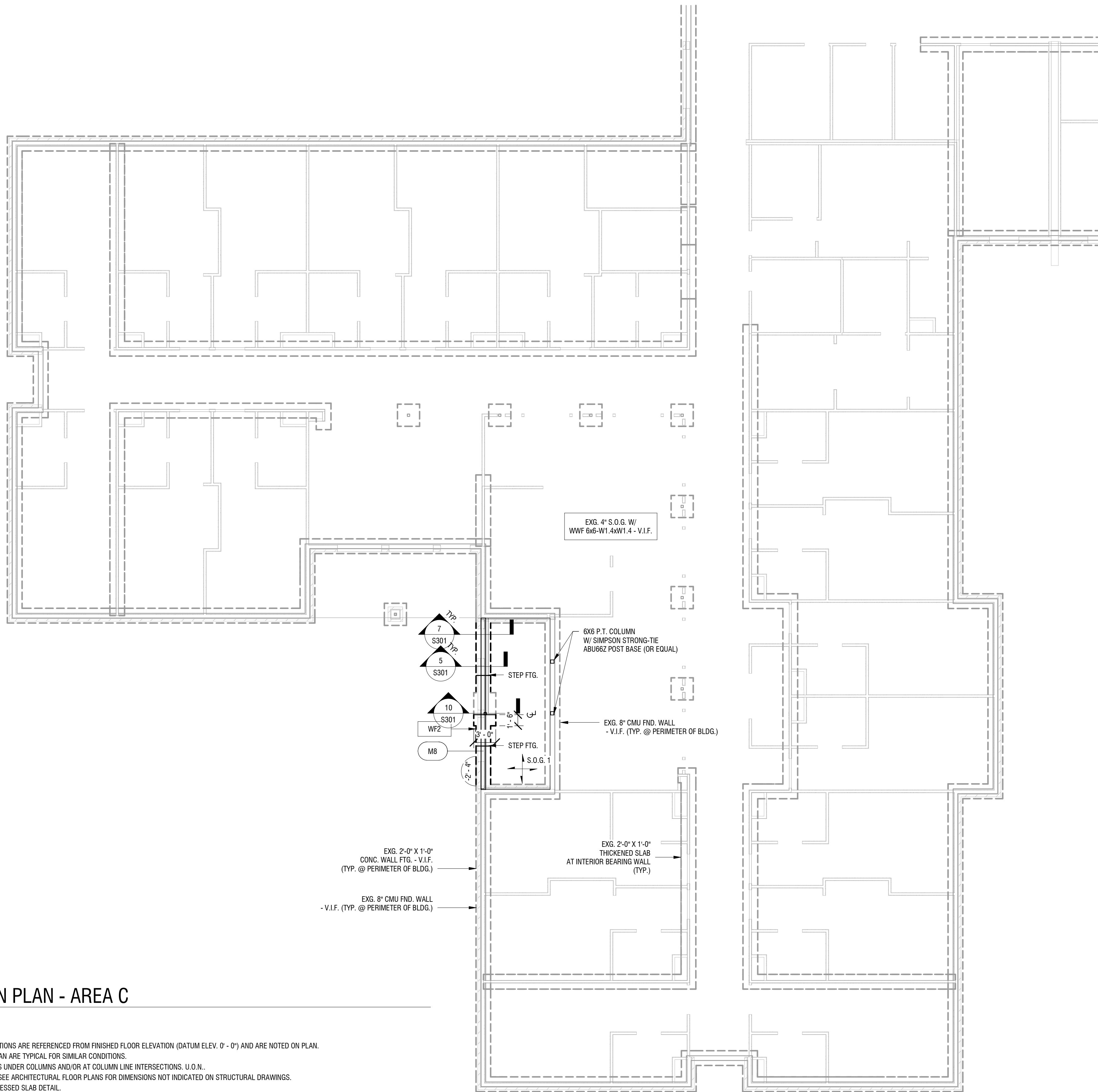
7

8

9

10

11



FOUNDATION LEGEND

1.

P#	F#
#-#	-#-#

P# - INDICATES PIER TYPE (SEE PIER SCHEDULE)
F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)
[-#-#] - BELOW COLUMN FOOTING TYPE INDICATES BOTTOM OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
[-#-#] - BELOW PIER TYPE INDICATES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"

2.

W#

- INDICATES WALL TYPE (SEE FOUNDATION WALL &/OR WALL SCHEDULE)

3.

WF#	#-#
-----	-----

WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE)
#-# - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0' - 0"

4.

#-#

#-# - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0' - 0"

5.

[##-##]

TOP OF WALL ELEVATION

1
S102

FOUNDATION PLAN - AREA C
1/8" = 1'-0"

- FOUNDATION PLAN NOTES:**
- BOTTOM OF FOOTING ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION (DATUM ELEV. 0' - 0") AND ARE NOTED ON PLAN.
 - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
 - CENTER ISOLATED FOOTINGS UNDER COLUMNS AND/OR AT COLUMN LINE INTERSECTIONS. U.O.N.
 - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
 - SEE DETAIL 1/S301 FOR RECESSED SLAB DETAIL.
 - SEE DETAIL 2/S301 FOR CONTROL JOINT SPACING.
 - PROVIDE (4) 2X6 AT EXTERIOR WALLS, (5) 2X4 AT INTERIOR BEARING WALLS (MIN.) AT ALL GIRDER TRUSS BEARING POINTS WITH SIMPSON HTT4 AT STUD BASE.
 - ALL EXTERIOR STUDS SHALL BE 2X6 SPF NO. 2 STUDS AT 16" O.C. AND ALL INTERIOR STUDS SHALL BE 2X4 SPF NO. 2 STUDS AT 16" O.C.

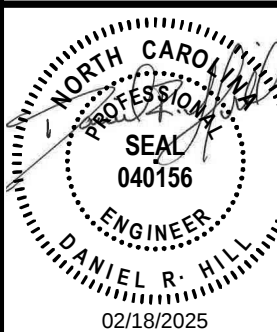
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CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION

Revisions		
No.	Description	Date

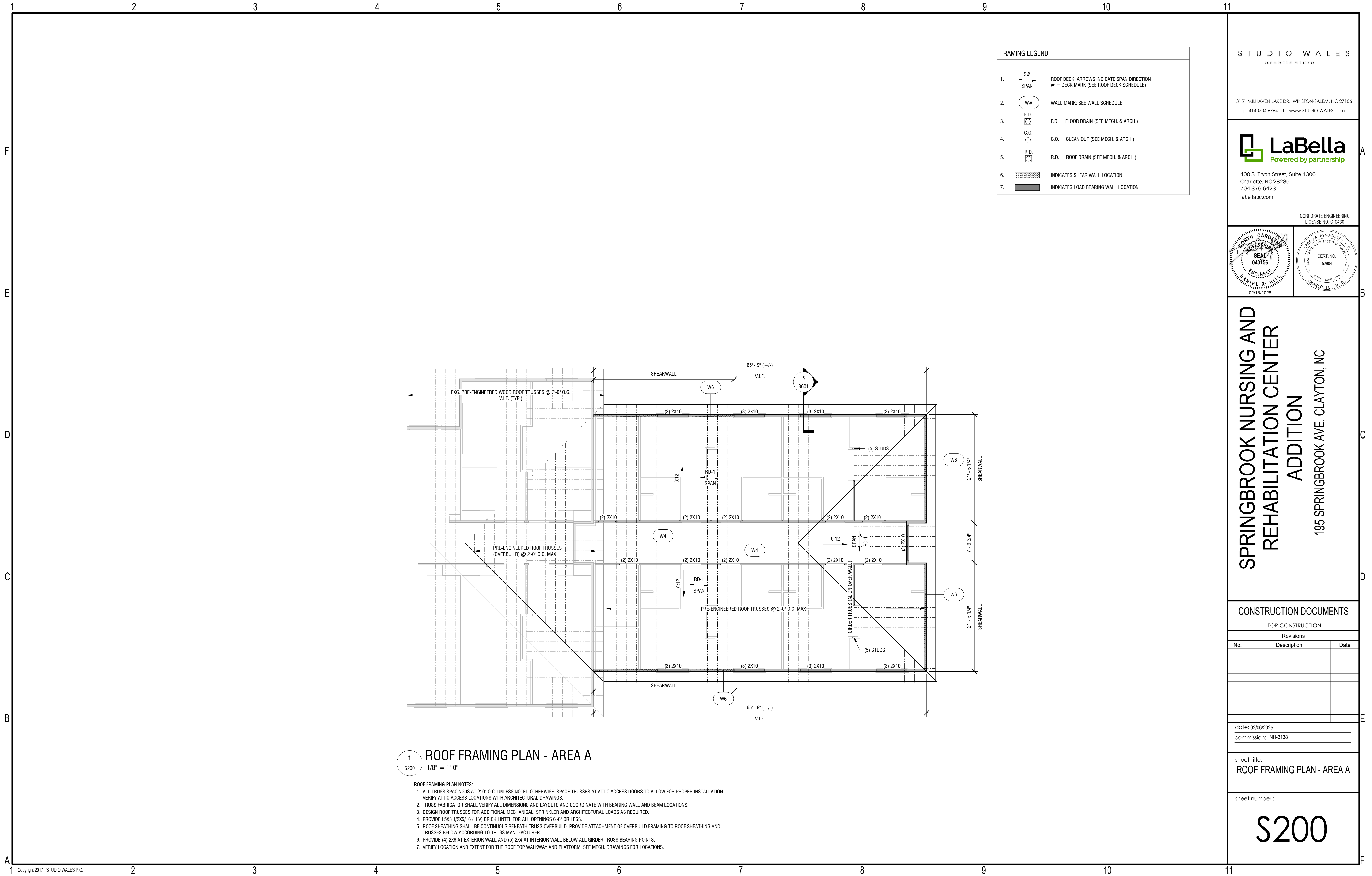
date: 02/06/2025

commission: NH-3138

sheet title:
FOUNDATION PLAN - AREA C

sheet number :

S102



FRAMING LEGEND

1.

S#

SPAN

2.

W#

3.

F.D.

4.

C.O.

5.

R.D.

6.

7.

ROOF DECK: ARROWS INDICATE SPAN DIRECTION
= DECK MARK (SEE ROOF DECK SCHEDULE)

WALL MARK: SEE WALL SCHEDULE

F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)

C.O. = CLEAN OUT (SEE MECH. & ARCH.)

R.D. = ROOF DRAIN (SEE MECH. & ARCH.)

INDICATES SHEAR WALL LOCATION

INDICATES LOAD BEARING WALL LOCATION

1

S200

ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

- ROOF FRAMING PLAN NOTES:
- ALL TRUSS SPACING IS AT 2'-0" O.C. UNLESS NOTED OTHERWISE. SPACE TRUSSES AT ATTIC ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION. VERIFY ATTIC ACCESS LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 - TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS AND LAYOUTS AND COORDINATE WITH BEARING WALL AND BEAM LOCATIONS.
 - DESIGN ROOF TRUSSES FOR ADDITIONAL MECHANICAL, SPRINKLER AND ARCHITECTURAL LOADS AS REQUIRED.
 - PROVIDE L3X3 1/2X5/16 (LL3) BRICK LINTEL FOR ALL OPENINGS 6'-0" OR LESS.
 - ROOF SHEATHING SHALL BE CONTINUOUS BENEATH TRUSS OVERBUILD. PROVIDE ATTACHMENT OF OVERBUILD FRAMING TO ROOF SHEATHING AND TRUSSES BELOW ACCORDING TO TRUSS MANUFACTURER.
 - PROVIDE (4) 2X6 AT EXTERIOR WALL AND (5) 2X4 AT INTERIOR WALL BELOW ALL GIRDER TRUSS BEARING POINTS.
 - VERIFY LOCATION AND EXTENT FOR THE ROOF TOP WALKWAY AND PLATFORM. SEE MECH. DRAWINGS FOR LOCATIONS.

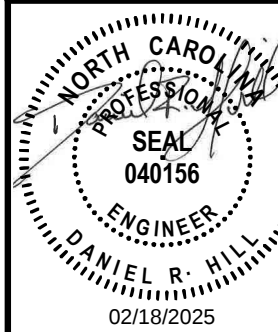
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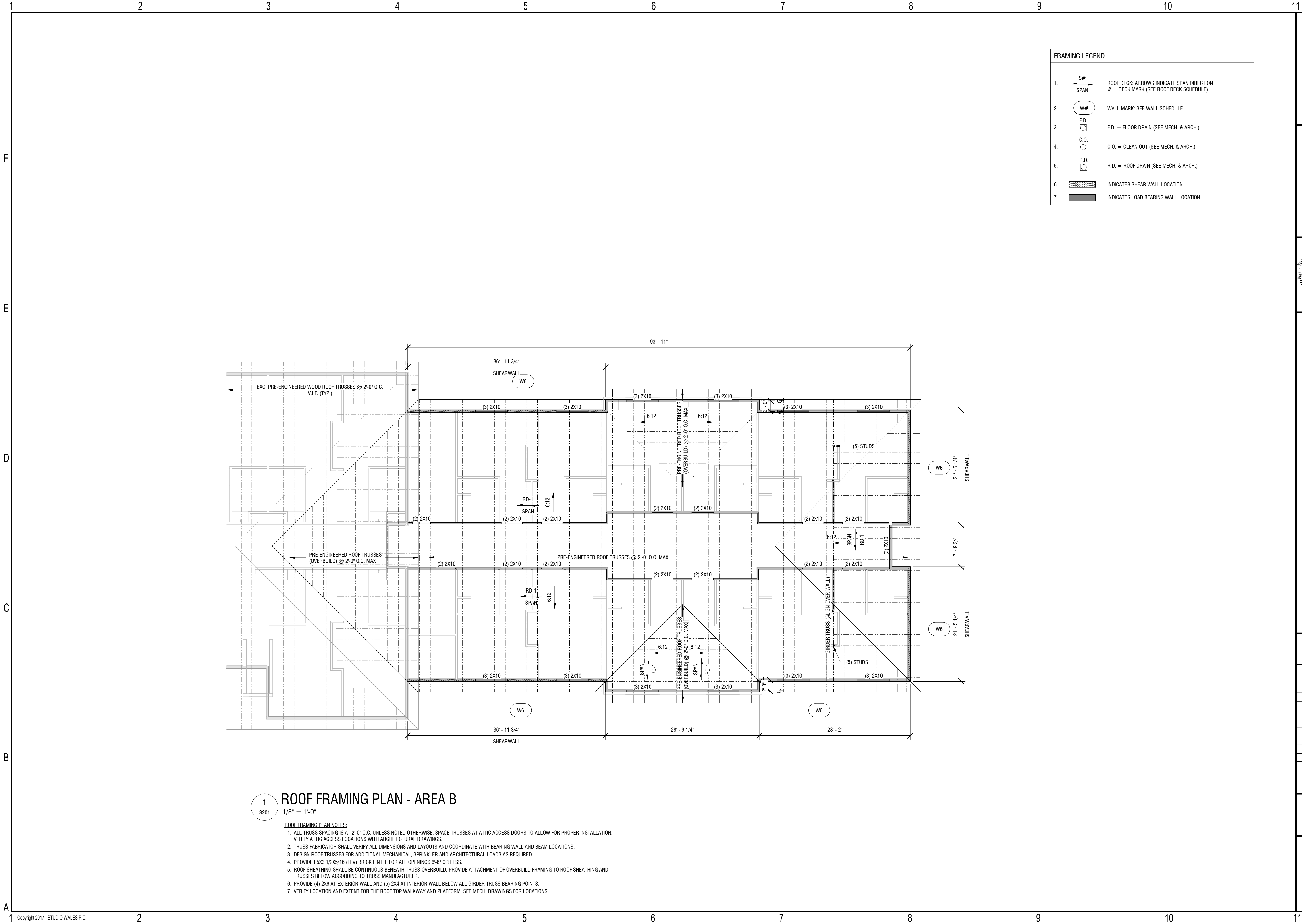
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No.	Description	Date

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ROOF FRAMING PLAN - AREA A

sheet number :

S200



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DANIEL R. WILLIAMS
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02/18/2025



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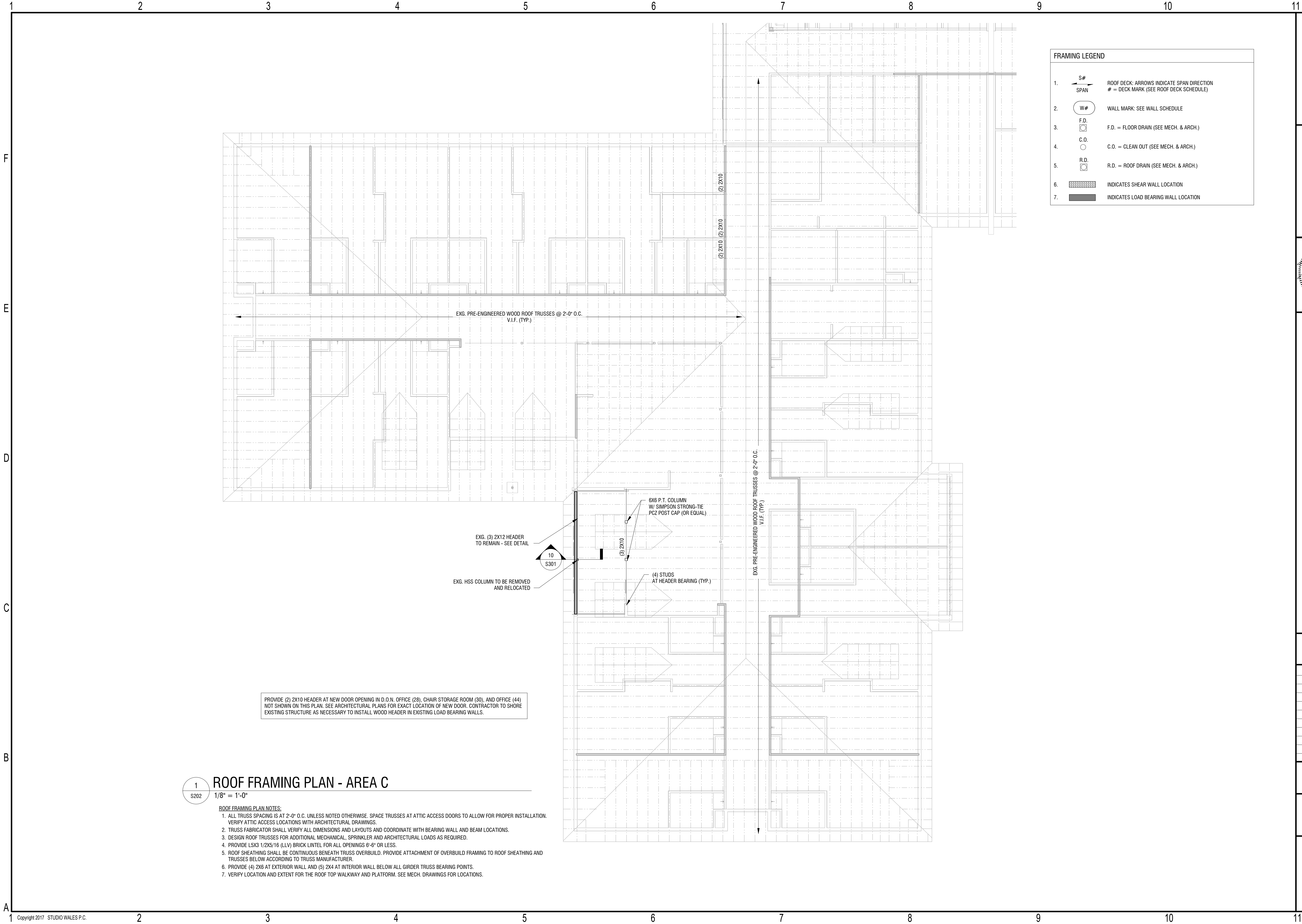
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sheet title:
ROOF FRAMING PLAN - AREA B

sheet number :

S201

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FRAMING LEGEND

1.

S#

SPAN

2.

W#

WALL MARK: SEE WALL SCHEDULE

3.

F.D.

F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)

4.

C.O.

C.O. = CLEAN OUT (SEE MECH. & ARCH.)

5.

R.D.

R.D. = ROOF DRAIN (SEE MECH. & ARCH.)

6.

INDICATES SHEAR WALL LOCATION

7.

INDICATES LOAD BEARING WALL LOCATION

ROOF DECK: ARROWS INDICATE SPAN DIRECTION
= DECK MARK (SEE ROOF DECK SCHEDULE)

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PROFESSIONAL SEAL

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ENGINEER

DANIEL R. WILSON

02/18/2025

LABELLA ASSOCIATES, A.C.

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CERT. NO. 52904

NORTH CAROLINA

CHARLOTTE, N.C.

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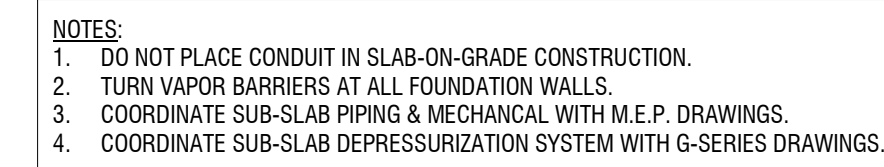
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sheet title:
ROOF FRAMING PLAN - AREA C

sheet number :

S202

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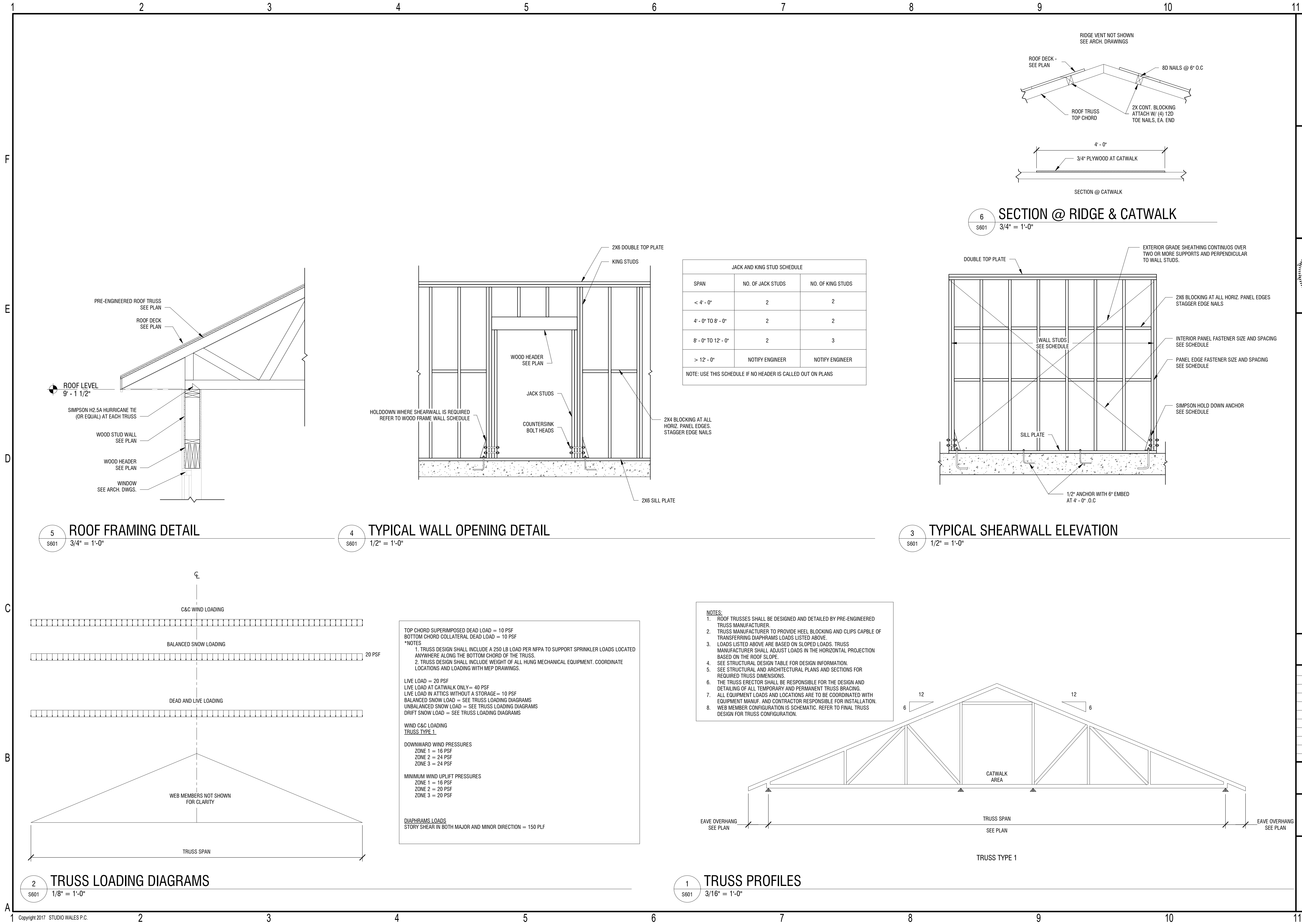
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TYPICAL WOOD DETAILS

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